



NOTES:

1. HE LEAK TEST @ 1 ATM. 1×10^{-7} CC/SEC OR LESS. CLEAN O-RING WITH METHANOL BEFORE PORT INSTALLATION, CONTINUOUS CONTACT OF METHANOL TO VITON O-RING WILL CAUSE O-RING TO SWELL AND NOT SEAL PROPERLY. A GREEN PAINT DOT ON THE ATMOSPHERE SIDE INDICATES THE PART HAS PASSED THE TEST.
2. HYPOT 630 VDC 500 MEGOHMS MINIMUM 0.01 SECOND SHIELD TO LEAK TEST PORT.
3. 20 KVDC HYPOT TEST WITH 1uA MAXIMUM LEAKAGE CENTER CONDUCTOR TO SHIELD AND LEAK TEST PORT.
4. CONTINUITY TEST END TO END PER TABLE.
5. O-RING TO BE SHIPPED DRY, NO LUBRICANT ALLOWED.
6. ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
7. ALL PARTS MUST PASS ALL TESTS.
8. WIRE POSITIONING IS APPROXIMATE & VARIABLE.
9. COSMETIC SURFACE VOIDS NOT ON O-RING SEALING SURFACES ARE ACCEPTABLE BASED ON THE SEAL'S DIAMETER:
 $\leq .5$ [12.7] SEAL DIAMETER: $\phi .035$ [.89] MAX ALLOWED VOID SIZE
 $> .5$ [12.7] SEAL DIAMETER: $\phi .060$ [1.5] MAX ALLOWED VOID SIZE
10. REF-OPERATING TEMPERATURE RANGE -20°C TO 105°C .
11. REF-PARTS ARE DEFLASHED ON PARTING LINE $+0.005$ [0.13] MAXIMUM.
12. DIMENSIONS ARE INCHES [millimeters].
13. PAVE-SEAL CAN BE A BI-DIRECTIONAL HERMETIC SEAL FOR VACUUM AND MOST PRESSURES. FOR PRESSURES ABOVE 150 PSI (10 BAR), CHECK WITH SALES ENGINEERING.

WIRING TABLE		
FROM	TO	CONTINUITY
ITEM 3-CONDUCTOR	ITEM 4	< 58 millioHMs
ITEM 3-SHIELD	ITEM 6/7	< 500 millioHMs

ITEM	QTY	PART NUMBER	DESCRIPTION
9	A/R	SAC305	SOLDER SAC305 FAST CORE
8	1	-016 VITON	O-RING -016 VITON 75
7	1	19323-0003	TERMINAL RING M3-3.5 STUD .50-1.0mm2 WIRE TIN PLATED COPPER UN-INSULATED
6	1	E20 SOLID BLK	WIRE 20E UL1213 SOLID CONDUCTOR
5	1	UPCSCI#1521 ORL	TUBING FEP 1/16"ID X 1/8"OD
4	1	TIN COPPER #20	WIRE 20 TINNED SOLID
3	1	HRG58-20-2	CABLE COAX HIGH VOLTAGE RG58 #20 19/33 TPC PE-X DIELECTRIC BRAIDED TPC SHIELD RED TPE-U JACKET 20KV
2	A/R	PAVE-Seal 150HV	EPOXY BLUE HIGH VOLTAGE
1	1	0130	HOUSING SPF12-E

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DESCRIPTION
SPF12-E-150-1/1/1-HRG58/E20/BUS20-38-12

PART NUMBER
5343

MATERIAL NOTED

REVISION LEVEL
B

PROJECTION

ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES.
 ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE ± 0.5
 X.X DECIMAL ± 0.1 X.XX DECIMAL ± 0.02 X.XXX DECIMAL ± 0.005
 ANGLES ± 1 DEGREE. SURFACE FINISH 128 microinch RMS